

Application No. 09/449,699  
Response to Office Action

Customer No. 01933

**Listing of Claims:**

Claims 1-11 (Canceled).

12. (Currently Amended) A document processing apparatus comprising:

judging means for judging whether a virtual printer or an actual printer is designated when a printing process operation of document data is selected;

print control means for printing said document data on the actual printer when said judging means judges that the actual printer is designated;

virtual document data obtaining means for obtaining said document data as virtual document data when said judging means judges that the virtual printer is designated; plural virtual document data each including plural individual pages each in a format with a page number added, the plural virtual document data being formed by designating a virtual printer while using respective different kinds of application programs such that the plural virtual document data comprises a plurality of types of virtual document data corresponding to the respective application programs, and said plural virtual document data containing specific page numbers which have been formed by said respective application programs;

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storage means for storing a plurality of items of the plural  
virtual document data obtained by the ~~virtual~~ document data  
obtaining means, said plurality of items of virtual document data  
being formed from respective documents created using different  
25 types of application programs and by designating the virtual  
printer;

display means for displaying the ~~plural~~ plurality of items  
of virtual document data stored in the storage means;

editing means for selecting respective plural individual  
30 pages to form an output virtual document to be outputted, from  
~~among the plural~~ a plurality of individual pages included in the  
plurality of ~~types~~ items of virtual document data ~~of the plural~~  
~~virtual document data~~ displayed on the display means, and for  
designating an output page order for the selected individual  
35 pages in the output virtual document; and

controlling means for: (i) reading out each of the selected  
~~plural~~ individual pages of the ~~output~~ virtual document data from  
the storage means, (ii) correcting a specific page number of each  
read out page of the virtual document data to a page number which  
40 corresponds to a position of the read out page in the output page  
order, ~~changing the specific page numbers to page numbers~~  
~~corresponding to the output page order of the output virtual~~  
document, and (iii) outputting the respective plural individual

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pages of the ~~output~~ virtual document data with the specific page  
45 numbers corrected to ~~with~~ the ~~changed~~ new page numbers.

13. (Currently Amended) The document processing apparatus  
as claimed in claim 12, wherein the controlling means masks the  
specific page number provided in the virtual document data and  
adds the ~~changed~~ new page number at an area for the page number  
5 based on the position in the output page order ~~of the output~~  
~~virtual document.~~

Claims 14-16 (Canceled).

17. (Currently Amended) A document processing apparatus  
comprising:

judging means for judging whether a virtual printer or an  
actual printer is designated when a printing process operation of  
5 document data is selected;

print control means for printing said document data on the  
actual printer when said judging means judges that the actual  
printer is designated;

converting means for, ~~converting a plurality of individual~~  
10 when the judging means judges that the virtual printer is  
designated, converting the document data ~~formed by respective~~  
~~different application programs to have specific page numbers into~~

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~~drawing records~~ into a drawing record so as to form virtual document data;

15 storage means for storing a plurality of items of the virtual document data having the specific page numbers converted by the converting means, said plurality of items of virtual document data being formed from respective documents created using different types of application programs to have specific  
20 page numbers formed by the application programs;

instruction means for instructing editing of the virtual document data;

displaying means for displaying page information included in the virtual document data stored in the storage means, when the  
25 editing of the virtual document is instructed by the instruction means;

editing means for editing page positions of output virtual document data to be outputted, based on the page information of the virtual document data displayed on the display means; and

30 controlling means for outputting the output virtual document data edited by the editing means in accordance with the edited page positions.

18. (Previously Presented) The document processing apparatus as claimed in claim 17, wherein:

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the displaying means displays icons representing the  
respective page information; and

5 the editing means edits the pages to be included in the  
virtual document by manipulating the icons displayed on the  
displaying means.

19. (Currently Amended) A computer readable program code  
embodied on a computer readable medium, the execution of said  
code by a computer causing said computer to perform the following  
instructions processes comprising:

5 judging whether a virtual printer or an actual printer is  
designated when a printing process operation of document data is  
selected;

printing said document data on the actual printer when said  
judging means judges that the actual printer is designated;

10 virtual document data obtaining program code for obtaining  
said document data as virtual document data when it is judged  
that the virtual printer is designated; plural virtual document  
data each including plural individual pages each in a format with  
a page number added, the plural virtual document data being  
15 formed by designating a virtual printer while using respective  
different kinds of application programs such that the plural  
virtual document data comprises a plurality of types of virtual  
document data corresponding to the respective application

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~~programs, and said plural virtual document data containing~~  
20 ~~specific page numbers which have been formed by said respective~~  
~~application programs;~~

~~storage program code for storing a plurality of items of the~~  
~~plural virtual document data, said plurality of items of virtual~~  
~~document data being formed from respective documents created~~  
25 ~~using different types of application programs and by designating~~  
~~the virtual printer; obtained by the virtual document data~~  
~~obtaining program code;~~

~~display program code for displaying the plural said stored~~  
~~plurality of items of virtual document data; stored in the~~  
30 ~~storage means;~~

~~editing program code for selecting respective plural~~  
~~individual pages to form an output virtual document to be~~  
~~outputted, from among the plural a plurality of individual pages~~  
~~included in the plurality of types displayed items of virtual~~  
35 ~~document data, of the plural virtual document data displayed on~~  
~~the display program code, and for designating an output page~~  
~~order for the selected individual pages in the output virtual~~  
~~document; and~~

~~a controlling program code for process including: (i)~~  
40 ~~reading out each of the selected plural individual pages of the~~  
~~output stored virtual document data, stored by the storage~~  
~~program code, (ii) correcting a specific page number of each read~~

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45 out page of the virtual document data to a page number which  
corresponds to a position of the read out page in the output page  
order, changing the specific page numbers to page numbers  
corresponding to the output page order of the output virtual  
document, and (iii) outputting the respective plural individual  
pages of the output virtual document data with the specific page  
numbers corrected to with the changed new page numbers.

Claim 20 (Canceled).

21. (Currently Amended) A computer readable program code embodied on a computer readable medium, the execution of said code by a computer causing said computer to perform ~~the following instructions~~ processes comprising:

5 judging whether a virtual printer or an actual printer is  
designated when a printing process operation of document data is  
selected;

printing said document data on the actual printer when said  
judging means judges that the actual printer is designated;

10 converting, ~~program code for converting a plurality of~~  
individual ~~when it is judged that the virtual printer is~~  
designated, the document data ~~formed by respective different~~  
application programs to have specific page numbers into a drawing  
records ~~record so as~~ to form virtual document data;

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15       ~~storage program code for storing a plurality of items of the~~  
~~converted virtual document data, said plurality of items of~~  
~~virtual document data being formed from respective documents~~  
~~created using different types of application programs to have~~  
~~specific page numbers formed by the application programs; having~~  
20   ~~the specific page numbers converted by the converting program~~  
~~code;~~

~~instruction program code for instructing editing of the~~  
virtual document data;

~~displaying program code for displaying page information~~  
25   ~~included in the stored virtual document data stored by the~~  
~~storage program code, when the editing of the virtual document is~~  
~~instructed by the instruction program code;~~

~~editing program code for editing page positions of output~~  
virtual document data to be outputted, based on the displayed  
30   ~~page information of the virtual document data displayed on the~~  
~~display program code; and~~

~~controlling program code for outputting the edited output~~  
virtual document ~~edited by the editing program code~~ data in  
accordance with the edited page positions.